

**ABSTRACT OF THE DISCLOSURE**

The SMNR of a granular perpendicular recording medium is significantly enhanced by incorporating  $\text{TiO}_2$  at the grain boundaries of the magnetic alloy layer. Embodiments include granular perpendicular recording media comprising CoPt alloys containing 0.1 to 15 at.%  $\text{TiO}_2$  and a molar ratio of Pt:Co of up to 0.5.

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